

WHAT IS CLAIMED IS:

1. A thermal insulation product comprising
a loose fill; and
at least one carbonate dispersed in the loose fill.
2. The product according to Claim 1, wherein the loose fill comprises fibers selected
from the group consisting of cellulose-containing fibers, synthetic polymer fibers, rock wool
fibers, and glass fibers.
3. The product according to Claim 1, wherein the loose fill comprises at least one of
shredded recycled newspapers and ground recycled newspapers.
4. The product according to Claim 1, wherein the at least one carbonate is dispersed
uniformly in the loose fill.
5. The product according to Claim 1, wherein the product comprises the at least one
carbonate in an amount of from 1 to 40% by weight.
6. The product according to Claim 1, wherein the at least one carbonate comprises
particles having a mean diameter in a range of from 3 to 6 μm .
7. The product according to Claim 1, wherein the at least one carbonate comprises
calcium carbonate.
8. The product according to Claim 1, further comprising a binder joining the at least
one carbonate to the loose fill.
9. The product according to Claim 1, further comprising a mineral oil dispersed in the
loose fill.
10. The product according to Claim 1, wherein the at least one carbonate absorbs
infrared radiation having a wavelength in a range of 4 to 40 μm .

11. A method of using a thermal insulation product, the method comprising positioning the product of Claim 1 in an interior of a hollow or open object.

12. A method of making a thermal insulation product, the method comprising dispersing at least one carbonate in a loose fill.

13. The method according to Claim 12, further comprising positioning the loose fill in an interior of a hollow or open object.

14. The method according to Claim 13, wherein the positioning comprises pouring or blowing the loose fill into the interior of the hollow or open object.

15. The method according to Claim 13, wherein the at least one carbonate is dispersed in the loose fill before the loose fill is positioned in the interior of the hollow or open object.

16. The method according to Claim 12, wherein the at least one carbonate is dispersed uniformly in the loose fill.

17. The method according to Claim 12, wherein the dispersing comprises wetting the loose fill with a liquid mixture containing a liquid and the at least one carbonate to form a wet loose fill mixture; and removing the liquid from the wet loose fill mixture.

18. The method according to Claim 17, wherein the liquid is removed from the wet loose fill mixture by air drying.

19. The method according to Claim 17, further comprising dispersing a binder in the liquid mixture.

20. The method according to Claim 12, further comprising dispersing a binder in the loose fill with the at least one carbonate.

21. The method according to Claim 12, further comprising dispersing mineral oil in the loose fill.

22. The method according to Claim 12, wherein the at least one carbonate comprises calcium carbonate.

23. The method according to Claim 12, wherein the loose fill comprises fibers selected from the group consisting of cellulose-containing fibers, synthetic polymer fibers, rock wool fibers, and glass fibers.

24. The method according to Claim 12, wherein the loose fill comprises at least one of shredded recycled newspapers and ground recycled newspapers.